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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/749,246	12/30/2003	Jang-Don Choi	11038-123-999	8314

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EXAMINER

BEAULIEU, YONEL

ART UNIT PAPER NUMBER

3661

DATE MAILED: 07/28/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/749,246

Applicant(s)

CHOI, JANG-DON

Examiner

Yonel Beaulieu

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 30 December 2003.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-11 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-11 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 12/30/03.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1 – 11 are rejected under 35 U.S.C. 102(b) as being anticipated by Khavakh et al. (US 6,192,314 B1).

Regarding claims 1, 2, and 6, Khavakh et al. teaches a route searching method in a navigation system for searching a route from a starting (origin) point to a destination (figs. 13 – 15) and calculating (using item 160 within item 50) a route low in aggregate cost in consideration of cost (fig. 16, item 414) per section (abstract at least), the method comprising: designating a preferable transit region desired by a user to pass through on a map (fig. 2 at least) and establishing a cost of the preferable transit region designated by the user to a low cost (col. 13, lines 9 – 29 and col. 32, lines 2 – 15 at least).

Regarding claim 3, Khavakh further teaches, in the method as defined in claim 2, wherein the particular domain is a circular area of an established distance about a point designated by a user (fig. 21; col. 25, lines 58 – 64 at least).

Regarding claim 4, Khavakh further teaches, in the method as defined in claim 2, wherein the particular domain is a perfect square area of an established distance about a point designated by a user (col. 26, lines 13 – 32).

Regarding claim 5, Khavakh further teaches, in the method as defined in claim 2, wherein the particular domain is a cell designated as a domain of the preferable transit region when one of the plurality of cells indicated by a user pre-set and divided on a map is selected (figs. 7 and 12; col. 6, line col. 7, line 13 at least).

Regarding claim 7, Khavakh further teaches, in the method as defined in claim 6, wherein the desired road is selected and designated by a user out of a road list (figs. 7 and 19; col. 3, lines 15-16; col. 17, lines 29 – 38 at least).

Regarding claim 8, Khavakh further teaches, in the method as defined in claim 1, wherein the step of establishing to lower the cost of the preferable transit region is to uniformly reduce a cost of a region selected by a user (col. 34, lines 54 – 62 at least).

Regarding claims 9 – 11, Khavakh further teaches, in the method as defined in claim 1, wherein the step of establishing to lower the cost of the preferable transit region is to increase costs of other regions than the preferable transit region selected by a user to relatively reduce a cost of the preferable transit region; wherein the step of

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establishing to lower the cost of the preferable transit region is to reduce costs step-by-step towards a center from surrounding areas of the region selected by a user; and wherein the step of establishing to lower the cost of the preferable transit region is to reduce costs of the preferable transit region step-by-step as the preferable transit region designated by a user is being approached (col. 32, line 53 – col. 33, line 7 and col. 33, lines 31 – 42 at least).

Conclusion

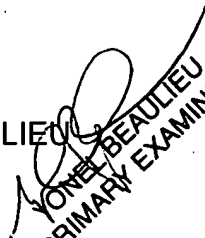
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Yonel Beaulieu whose telephone number is (571) 272-6955. The examiner can normally be reached on M-W 9-3; F 9-4.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas BLACK can be reached on (571) 272-6956. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Y. BEAULIEU
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YONEL BEAULIEU
PRIMARY EXAMINER